

TARANUKHA, M. D., kand. biolog. nauk

Spraying in controlling the shield bug Eurygaster intergriceps.
Zashch. rast. ot vred. i bol. 5 no.5:32-33 My '60.

(MRA 16:1)

(Ukraine—Eurygasters—Extermination)

(Ukraine—Spraying and dusting in agriculture)

#### TARANUKHA, M.D.

Dynamics of the abundance of Eurygaster integriceps as related to its feeding on different varieties of winter wheat and the resistance of these varieties to the pest. Vop. ekol. 7:177-178 '62.

1. Ukrainskiy nauchno-issledovatel skiy institut sashchity rasteniy. Kiyev.

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L 17022-63

EWT(1)/EPF(c)/EWT(m)/ S/185/63/008/004/007/015

AFFTC/ASD Pr-4 GG/RM/WW/AR/JFW/K

AUTHOR: Shul'ha, S. Z., Telyatnyk, A. I., Taranukha, O. M., and Sydoryk,

Ye. P.

TITLE: EPR Spectra of certain / -irradiated amino acids over a wide

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 8, no. 4, April 1963, 460-468

TEXT: The authors study the EPR spectra of a great number of amino acids irradiated by a cobalt y - source. These studies are important because of the character of the radiation damage to solids, of the superfine interaction of an unpaired electron with paramagnetic nuclei in free radicals, of the properties of molecular orbits of an unpaired electron, etc. The study of radiation defects in amino acids can also be the basis for the study of radiation damages in biological objects since amino acids are the building blocks of protein molecules. Assumptions are made regarding the structure of the free radicals arising in certain of the substances studied. The spectrum of the irradiated DL-norleicin differs from that obtained by some other authors, who used X-ray tubes for irradiation. The relationship of the spectra to temperature was studied over a

Card 1/2

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754910017-6"

L 17022-63
EPR Spectra of certain....

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1

range extending from room temperature to that of liquid nitrogen (77°K) and liquid hydrogen (20.4°K). The authors observed expansion of the components of superfine structure; this effect is explained by freezing of the rotary motions of the radicals resulting in averaging of the dipole-dipole interaction. In some instances a slight variation was noted in the magnitude of superfine splitting; and in some cases improvement in the symmetry of the superfine structure picture during cooling was observed. An attempt was made to explain this phenomenon. The authors also studied the change in EPR spectra due to recombination of free radicals, which results from heating samples at 100°C.

ASSOCIATION: Institut fizyki AN URSR (Institute of Physics of the Ukrainian Academy of Sciences, Kiev)

SUBMITTED:

September 12, 1962

Card 2/2

L 36664-65 EWT(1)/EEC(t)/EEC(b)-2 Pi-4 IJP(c)

ACCESSION AR: AP5007384

8/0286/65/000/004/0040/0040

AUTHOR: Lebedev, Ya. S.; Taranukha, O. M.

TITLE: Transducer for spectrometers of electron paramagnetic resonance. Class 21, No.

168347

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 4, 1965, 40

TOPIC TAGS: spectrometer transducer, electron paramagnetic resonance, EPR spectrom-

eter

ABSTRACT: This Author Certificate introduces a transducer for a spectrometer of electron paramagnetic resonance. The transducer consists of a cavity resonator and an ampul containing the specimen. To localize the shf field within the specimen, a spiral made of a conductive substance is wound around the ampul. Orig. art. has: 1 figure.

ASSOCIATION: none

SUBMITTED: 18Mar64

ENCL: 00

SUB CODE: EC,NP

NO REF SOV: 000

OTHER: 000

ATD PRESS: 3221

Card 1/1.

#### LEBEDEV, Ya.S.; TARANUKHA, O.M.

Use of moderating packings in the recording of electron paramagnetic resonance spectra. Teoret. i eksper. khim. 1, no.2:260-264 Mr-Ap '65. (MIRA 18:7)

1. Institut khimicheskoy fiziki AN SSSR, Moskva.

#### TARANUKHA, Yu.K.

Geothermal features of the Mesozoic and Cenozoic sediments of the Kuban-Black Sea oil- and gas-bearing region. Izv. vys. ucheb. zav.; neft' i gaz 4 no.11:3-9 '61. (MIRA 17:2)

1. Groznenskiy neftyanoy institut.

SUKHAREV, G.M.; TARANUKHA, Yu.K.; VLASOVA, S.P.

Geothermal characteristics of oil and gas fields in the Caucasus. Sov.geol. 5 no.12:70-79 D '62. (MIRA 16:2)

Grosnenskiy neftyanoy institut.
 (Caucasus—Petroleum geology)
 (Caucasus—Gas, Natural—Geology)

SUKHAREV, G.M.; TARANUKHA, Yu.K.

Geothermal characteristics of a cross section of Tertiary sediments. Izv.vys.ucheb.zav.; neft' 1 gaz 5 no.423-8 '62.

(MIRA 16:1)

1. Groznenskiy neftyanoy institut.

(Azerbaijan—Earth temperature)

SUKHAREV, Grigoriy Mikhaylevich; MIROSHNIKOV, Mikhail Vasil'yevich
Prinimal uchastiye TARAMUKHA, Yu.K.; BERMAN, Yu.K.,
vedushchiy red.; STAROSTINA, L.D., tekha. red.

[Underground waters of the oil and gas fields in the Caucasus]
Podsemnye vody neftianykh i gazovykh mestorozhdenii Kavkasa.
Moskva, Gostoptekhizdat, 1963. 327 p.

(Caucasus—Petroleum geology)

(Gaucasus—Gas, Natural—Geology)

(Gaucasus—Water, Underground)

TARANUKHA, Yu.K.; NIKANOROV, A.M.

Principals of paleogeothermal investigations. Izv. wys. ucheb. zav.; neft! i gaz 6 no.7:3-4 163. (MIRA 17:8)

1. Groznenskiy neftyanoy institut.

NIKANOROV, A.M.; TARANUKHA, Yu.K.

A STATE OF THE PARTY OF THE PAR

Hydrochemical types and factors influencing the formation of the chemical composition of the waters of the Khwalynian sediments in eastern Ciscaucasia. Izv. vys. ucheb. zav.; neft! i gaz 6 no.10: 3-5 '63. (MIRA 17:3)

1. Groznenskiy neftyanoy institut.

VLASOVA, S.P.; SUKHAREV, G.M.; TARANUKHA, Yu.K.

Geothermal characteristics of Mesozoic and Cenozoic sediments in eastern Ciscaucasia. Izv. vys. ucheb. zav.; geol. i razv. 7 no.2:3-12 F\*64. (MIRA 17:2)

1. Groznenskiy neftyanoy institut.

VLASOVA, S.P.; TAR CUEFA, Yo.f.

Temperature conditions of the Medical actions of the local factor (caucasus and discaucasis. by. ven. total. .av.; nett ingra 7 no.7:9-12 '64.

1. Grozmenskiy neftymnoy matitud.

TARAMUKHA, Au.K.; Mikaherev, A.M.

Some problems concerning the hydrothemistry of the underground waters of the Mescochozoic sediments of eastern discalcasia. Izv. vys. ucheb. zav.; neft' i gaz 7 no.8:30, 38 '04. (MRA 17:10)

1. Groznenskiy neftyancy factitut.

SUKHAREV, G.M.; VIASOVA, S.F.; TARANUKHA, Yu.K.

Some new data on the geothermal characteristics and thermophysical properties of rocks of the Pre-Cambrian-Paleozoic and Meso-Cenozoic sediments in the Greater Caucasus and Ciscaucasia. Dokl. AN SSSR 161 no.1:203-204 Mr 165.

(MIHA 18:3)

1. Groznenskiy neftyanoy institut. Submitted August 13, 19c4.

SUKHAREV, G.M.; TARANUKHA, Yu.K.

New data on Paleozoic and Pre-Cambrian underground waters in the Caucasus. Geol. nefti i gaza 9 no.4:54-57 Ap 165. (MIRA 18:8)

1. Groznenskiy neftyanoy institut.

SUKHAREV, G.M.; TARANUKHA, Yu.K.

Paleozoic and Pre-Cambrian waters in the Caucasus, Sov.gecl. 8 no.21100-111 F 165. (MIRA 18:12)

1. Groznenskiy neftyanoy institut.

ACC NR: AP7001895

(N)

SOURCE CODE: UR/0020/66/171/004/0851/0853

AUTHOR: Sukharev, G. M.; Vlasova, S. P.; Taranukha, Yu. K.

ORG: Groznyy Petroleum Institute (Groznenskiy neftyanoy institut)

TITLE: Thermophysical properties of rocks and values of thermal fluxes in certain regions of the High Caucasus and Ciscaucasia

SOURCE: AN SSSR. Doklady, v. 171, no. 4, 1966, 851-853

TOPIC TAGS: thermophysical property, thermal flux, geologic exploration, petrology

ABSTRACT: In 1962--1964 the authors determined the thermal parameters of several hundred specimens of magmatic, metamorphic, and sedimentary rocks under dry-air and moisture conditions in the temperature range from 15--20 to 90--100C. Determination of the thermal properties of rocks and temperature measurements in long-idle bore-holes where these tests were made permit calculation of thermal flux densities coming from the depths of the earth. The results from the following boreholes are especially valuable in this connection: Karmadon No. 10 (in the valley of the Genaldon River 7 km north of Kazbek), Tamisk No. 1 (at the Tamisk spa in the Ardon River valley on the northern monocline of the Caucasus mountain structure), Metallurg No. 2 (in the southern outskirts of Ordzhonikidze), Baksan No. 1 (in the deep Kabardian Depression), Zmeyskaya No. 1 (at the west end of the Sunzhenskiy anticlinorium), Oktyabr skaya No. 50/25 (on the southern outskirts of Groznyy), Veselovskaya No. 10 (in the

Card 1/2

UDC: 550.36(478)

ACC NR: AP7001895

North-Nagutsko-Veselovskiy brachianticlinal elevation), Zhuravskaya No. 4 (in the zone of juncture of the Tersko-Kumskiy depression with the Stavropol' vault), Petrovskaya No. 1 (in the vault zone of the Petrovsko-Blagodarnenskiy brachyanticlinal elevation of the West-Stavropol' depression), and Aleksandriyskaya No. 1 (in the southwestern part of the Tersko-Kumskiy depression). Average value of thermal fluxes from the depths of the earth were found within the wide limits of  $1.62 \cdot 10^{-2}$  to  $14.15 \cdot 10^{-2}$  W/m². These fluctuations are quite regular and stem from such factors as the geological structure, hydrogeological factors, and manifestation of new tectonic movements. Paper presented by Academician D. I. Shcherbakov 17 Feb 1366.

SUB CODE: 08/ SUBM DATE: 10Feb66

## "APPROVED FOR RELEASE: 07/13/2001

## CIA-RDP86-00513R001754910017-6

PESOTSKIY, V.S., inzh.; TARANUKHIN, N.A., inzh.

Analyzing the cost of transporting raw materials. Tsement 30 nc.4:

(MIEA 17:11)

14 J1-Ag 164.

1. Vsesoyuznoye gosudarstvennoye spetsial'noye byuro po provedeniyu pusko-naladochnykh i proyektno-konstruktorskikh rabot v tsementnoy promyshlennosti Gosstroya SSSR.

NIKITIN, Yu.P.; TARANUKHINA, L.V.; SEREDINA, L.R.; PUSHKAREVA, S.A.; POPOVA, I.A.; VERSHININA, N.V. Activity of oxides in liquid aluminum silicates. Izv.vys.icheb. zav.; tsvet.met. 5 no.1:74-76 162. (MIKA 15:2 (MIKA 15:2) 1. Ural'skiy politekhnicheskiy institut, kafedra tekhnologii silikatov.

(Activity coefficients)

> CIA-RDP86-00513R001754910017-6" APPROVED FOR RELEASE: 07/13/2001

TARANUKEINA, Z.

N - Hospital in Mechinkova Inst., Hoscow, (1944-)

"Examination of a wound microflora and its dynamics in cytogramms of the wound exudation,"

Zhur. Fikrobiol., Epidemiol., i Immunobiol., No. 9, 1944.

NESMETOVA, V.V.; TARANUKHINA, Z.V., kandidat mediteinskikh nauk (Moskva)

Malarial hemoglobinuria. Klin.med.33 no.7:69-74 J1 '55.
(HBMOGLOBIN, etiology and pathogenesis, malaria)
(MALARIA, complications hemoglobinuria)

KASSIRSKIY, I.A., prof.; NESMELOVA, V.V.; TARANUKHINA, Z.V.; SADOVNIKOVA, Ye.I.

24.00mg 14.00mg 14.00mg

<u>ารเลี้ยน ค.ศ. เพิ่งหยายครั้งสะบา</u>

Current and controversial problems in the treatment and diagnosis of acute leukoses. Problegemater perelektori 1 no.1:16-23 Ja-F 156. (MIRA 14:1)

1. Iz 3-y terapevticheskoy kafedry (zav. - prof. I.A. Kassirskiy)
TSentral\*nogo instituta usovershenstvovaniya vrachey.
(LEUKEGIA)

### "APPROVED FOR RELEASE: 07/13/2001

#### CIA-RDP86-00513R001754910017-6

TARANUSHCHENKO, O.S., inzh.

Author's supervision and the technical assistance of designers at large construction projects. Prom. stroi. 43 no. 11:6-7
(MIRA 18:12)

1.Pridneprovskiy Gosudarstvennyy proyektnyy institut po obshchestroitel'nomu i sanitarno-tekhnicheskomu proyektirovaniyu promyshlennykh predpriyatiy Gosstroya SSSR.

ACCESSION NR: AP404,2635

S/0173/64/017/003/0019/0024

AUTHOR: Taranyan, I. G.

TITIE: The study of heat transfer and aerodynamic drag of a finned rolled bundle of aluminum tubes

SOURCE: AN ArmSSR. Izv. Seriya tekhnicheskikh nauk, v. 17, no. 3, 1964, 19-24

TOPIC TAGS: heat transfer, aerodynamic drag, Nusselt number, Reynolds number, heat exchanger / ETAM 3A electrothermoanemometer

ABSTRACT: The results of investigations of heat transfer and aerodynamic drag on a bundle of aluminum tubes were obtained. The tubes were rolled, staggered bundles of 25 aluminum tubes each. The finned tubes had 8-mm internal diameters and 12-mm external diameters, 27.5-mm fin diameter with 0.5-mm fin thickness and 7.75-mm fin height. The experiments were performed in an open jet wind tunnel with an exhaust fan. The tubes were placed transverse to the air flow and heated water was circulated through them. Air temperature was measured by means of resistant thermometers to within 0.1C, and the speed of the incoming air stream was determined by means of an electrothermoanemometer type ETAH-3A (VEI system). The heat transfer analysis was carried out using nondimensional similarity

Card 1/2

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ACCESSION NR: AP4042635

criteria represented by

 $Na = A \cdot Re^a$ , with the assumption Pr(air) = 0.7.

The coefficient A<sub>1</sub> and the index "a" were determined experimentally to be 0.51

and 0.67 respectively. All transport coefficients were obtained using mean temperature values. The aerodynamic drag was determined using Euler's criteria per tube bundle, or  $\frac{Eu}{m} = C \cdot Re^{a}$ . C and m were then determined from the experi-

mental data to be 1.12 and -0.2 respectively. It is shown that the Reynolds number index is a direct function of fin effectiveness. Orig. art. has: 11 formulae and 3 figures.

ASSOCIATION: AFVNITEM

SUBMITTED: 18Jun63

ENCL: OO

SUB CODE: NE.TD

NO REF SOV: 006

OTHER: 000

Card 2/2

EWT(d)/FS(m)/EWT(l)/EWP(m)/EWG(v)/T=2/FCS(k) Pd-1/Pe-5 s/0173/64/017/006/0033/0040 L 29107-65

ACCESSION NR: AP5003986

AUTHOR: Taranyan, I. O.

TITLE: Study of the heat transfer and aerodynamic resistance of transverse stream lined circular sectioned fins

SOURCE: AN ArmSSR. Izvestiya. Seriya tekhnicheskikh nauk, v. 17, no. 6, 1964, 33-

TOPIC TAGS: heat transfer, aerodynamic resistance, Nusselt number, Prandtl number, Reynolds number

ABSTRACT: The results of investigating the heat transfer and aerodynamic resistance of streamlined fins with circular cross sections are reported. These studies were conducted in the laboratories of the Armenian branch of the VNIIEM. Each fin was rolled in one piece and 2-8 grooves were milled on it. A typical finned tube had the following dimensions: internal diameter of the base tube di was 8 cm, Pexternal diameter d was 12 mm, diameter including the fin D was 27.5 mm, mean width of the fin & was 0.5 mm, height of the fin h was 7.75 mm, spacing between the fin vertices t was 3 mm, and the fin coefficient \$\Omega\$ was 9.5. The heat transfer test was conducted by sending water through the tube at a temperature of 90-980, and cooling Card 1/3

L 29107-65

ACCESSION NR: AP5003986

the outside of the tube by air. The experimental mothod followed the one described in the work of 1. G. Taranyan (Izvestiya AN Armyanskoy SSR, sernya tekhnicheskikh nauk, No. 3, 1964). From the experimental data the following relations were obtained between the Musselt number Nu, Prandtl number Pr, Reynolds number Re, depth ratio 1/d, and the relative arc length between the grooves s/d:

$$3 \cdot 10^{3} \le Re \le 20 \cdot 10^{3}, \ 0.166 \le \frac{l}{d} \le 0.33 \ \text{H} \ 0.733 \le \frac{s}{d} \le 3.14$$

$$\tilde{N}u = 0.119 \ Re^{0.05} \ (l/d)^{0.12} \cdot \left(\frac{s}{d}\right)^{0.18} Pr^{0.4};$$

$$3.10^{4} < Re \le 20.10^{4}, \ 0.333 < l/d \le 0.65 \ \text{H} \ 0.733 \le \frac{s}{d} \le 3.44$$

$$Nu = 0.135 Re^{0.66} \cdot (l/d)^{0.12} \cdot (s/d)^{..13} \cdot Pr^{0.4}$$
;

$$20 \cdot 10^3 \le Re \le 6.5 \cdot 10^3$$
,  $0.166 < l/d < 0.5 + 0.733 <  $\frac{s}{d} < 3.44$$ 

$$Nu = 0.256 Re^{0.56} (l/d)^{0.17} (s/d)^{0.144} Pr^{0.4}$$
:

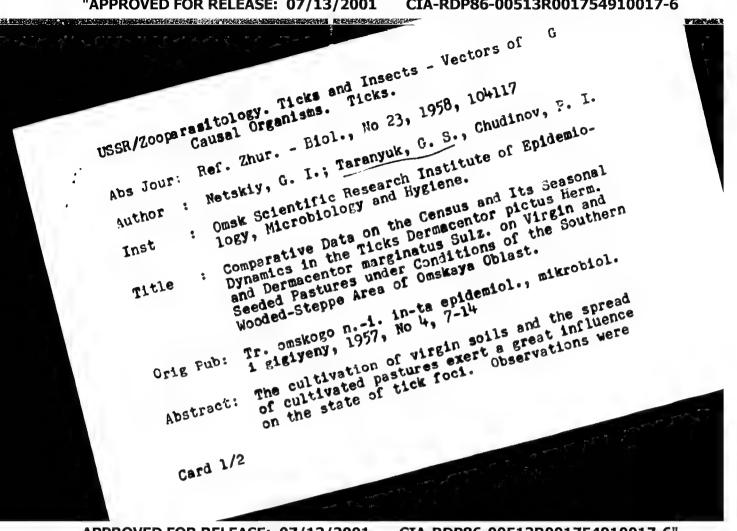
Card 2/3

	L 29107-65
	ACCESSION NR: AP5003986
	2).10° $Re < 6.5 \cdot 10^{\circ}$ , $0.5 < l/d < 0.55$ in $0.633 < \frac{8}{d} < 3.44$
	$Nu = 0.268 \ Re^{0.56} \cdot (I/d)^{0.34} \cdot (s/d)^{0.54} \cdot 0.00^{0.54} \cdot 0.00^{0.54}$
	Orig. art. hast 10 formulas and 5 figures.
	ASSOCIATION: Armyanskiy filial VNIIEM (Armenian branch of VNIIEM)
	SUBMITTED: 15Jun64 ENCL: 00 SUB CODE: TD
	NO REF SOV: 003
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	Cord 3/3

TARALYHOVA G. P., EMEYAV, T. M., and CHROTHENHIY, D. C.

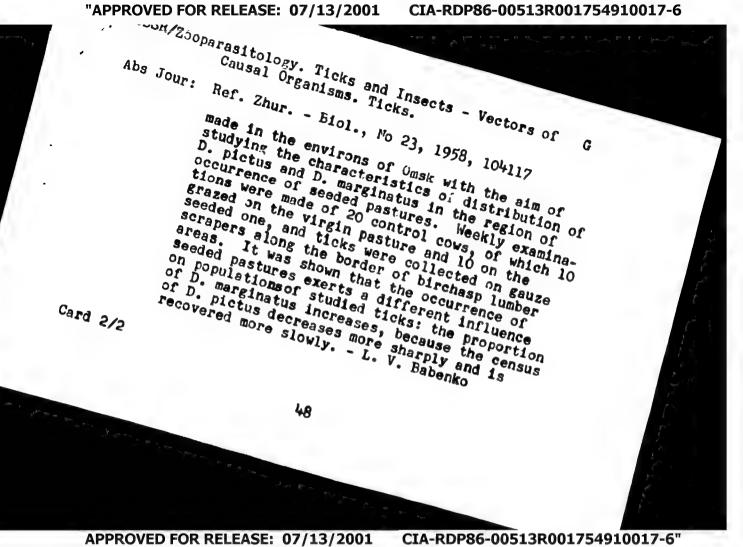
"Determining the Time of Existence of the Artificial Earth Satellite and Studying Secular Perturbations of its Orbit," a paper presented at the 6th International Astronautical Congress, 6-12 Oct. 1957, Barcelona.

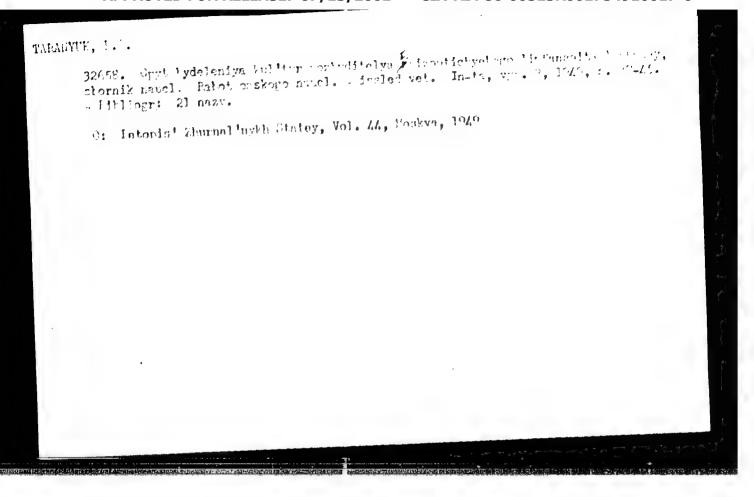
## CIA-RDP86-00513R001754910017-6 "APPROVED FOR RELEASE: 07/13/2001



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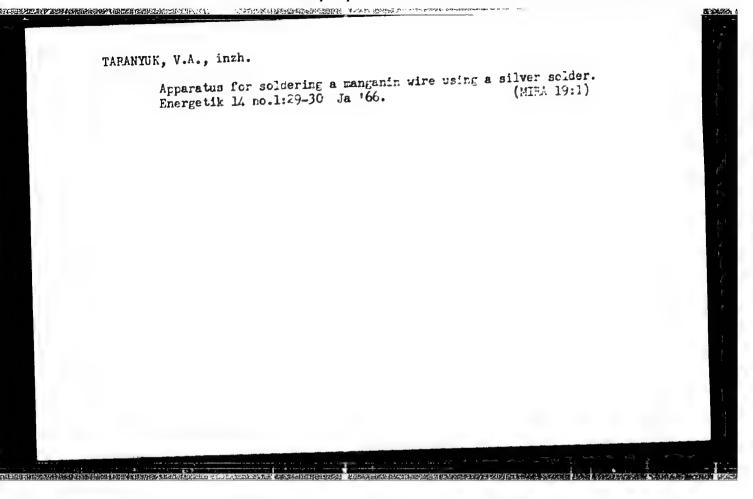


TARAHYUE, P. S.

"Administration of the Allergen Masterycin in the Diagnosis and Preatment of Epizootic Lymphangitis of Morses," P.S. Taranyuk, Cand. Vet. Sci., Irkutsk Sci. Lec. Vet Ezper. Station. Veterinariya Vol 30, No 5, pp 12-16, Nay 53.

THE REPORT OF THE PROPERTY OF

No specific remedy has yet been discovered for the treatment of epizoptic lymphangitis in horses. The fact that horses which have recuperated from epizoptic lymphangitis acquire incunity that lasts a long time testifies that an incumorenic process takes place during which antibodies are formed. Since the causative organism can be grown on an artificial medium, an altergen could be prepared to aid in the early diagnosis of the disease. The use of this allergen, named blastomycin, seems feasible in cases when the clinical symptoms are not clear or are nontypical. Blastomycin, a in cases when the clinical symptoms are not clear or are nontypical. Blastomycin, a dark-yellow transparent liquid, is adminitered subcutaneously. It has proven to possess a high degree of specificity and induces no tarked allergic reaction in healthy norses.



### "APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001754910017-6

A. Ale Years USSR/Medicine - Bacteriology FD-3309

Card 1/1

: Pub. 148-5/24

Author

: Zhitowa, Ye. I., Ivanova, N. A., and Taranyuk, Z. Ye.

Title

: The regeneration of filterable forms of bacteria on various nutrient

media

Periodical

: Zhur. mikro. epid. i immun. 10, 32-36, Oct 1955

Abstract

The observation of filterable forms of bacteria is possible without the use of "feeders" if the material being investigated is cultured on nutrient media rich in natural protein and containing a specific vitamin composition (A Dorset egg medium, serum bouillon, or Martin's bouillon with liver extract and yeast autolysate). Various conditions are required for the regeneration of the filterable forms of different species of bacteria. Filterable forms generated in serated cultures have a greater chance of developing into cellular forms than those obtained

from phagolysates of cultures. No references cited.

Institution : Gor'kiy Institute of Vaccines and Sera (Director - A. A. Golubev)

Submitted

: January 14, 1955

ZHITOVA, I.Ye.,; IVANOVA, M.A.,; TARANYUK, Z.Ye.

Regeneration of filtrable forms of enteric bacteria by using
"feeder" bacteria. Zhur. mikrobiol., epid. i immun. 27 no.1:5-8
Ja '56

1. Is Gor'kowakogo instituta vaktsin i syveretek (dir.A.A. Golubev)
(CULMUM MEDIA,
for enteric filtrable bact. regen. (Rus))
(MACTERIA,
enteric filtrable, culture media for determ. of regen. (Rus))

TOWN TO COUNTY TO SEE THE CONTROL OF THE CONTROL OF

TARANYUK, Z. Ye. Cand Med Sci -- (diss) "Production of Cholera vaccine by the depth method." Cor'kiy, 1959. 12 pp (Gor'kiy State Med Inst im S. M. Kirov), 250 copies (KL, 46-59, 140)

73

ALEYNIK, M.D.; TARANYUK, Z.Ye.

Heterohemagglutination reaction with chicken erythrocytes as a method for the laboratory diagnosis of Botkin's disease. Vop. virus. 5 no. 1:83-87 Ja-F '60. (MIRA 14:4)

1. Gor'kovskiy institut epidemiologii i gigiyeny.
(HEPATITIS, INFECTIOUS) (BLOOD—AGGLUTINATION)

中国中国的企业,1995年,199

ALEYNIK, M.D.; TARANYUK, Z.Ye.; NASONOVA, A.S.; NIKOLAYEVSKAYA, G.V.; ZOTOVA, A.G.

Study of the effectiveness of prophylaxis of Botkin's disease using gamma glabulin in childrens' institutions in Gorkiy and Dzerzhinsk. Vop.virus. 7 no.5:617-618 S-0 '62. (MIRA 15:11)

1. Gor'kovskiy institut epidemiologii i mikrobiologii, Gor'kovskaya oblastnaya sanitarno-epidemiologicheskaya stantsiya i Sanitarno-epidemiologicheskaya stantsiya avtozavodskogo rayona, Gor'kiy.

(GAMMA GLOBULIN)

(GORKIY—HEPATITIS, INFECTIOUS)
(DZERZHINSK (GORKIY PROVINCE)—HEPATITIS, INFECTIOUS)

TARAPAHI, J.

"Some Remarks Concerning The Packaging Of Paper" p. 15. (Przeglad Papierniczy, Vol. 9, no. 2, Feb. 1953, Lodz)

SO: Monthly List of East European Accessions, Vol. 3, No. 2, Library of Congress, Feb. 1954

TARAPANI, J.

Schiller and paper. p. 371. PRZEGLAD PARIERNICZY. Lodg. Vol. 11, no. 12, Dec. 1955

Source: East European Accessions List, (EEAL), Lc, Vol. 5, No. 3, March 1956

#### TARAPANI, J.

Calculating the production of paper by area. (To be continued) p. 52. (PRZEGIAD PAPIERNICZY. Vol. 12, no. 2, Feb. 1956, Lodz, Poland)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 12, Dec. 1957. Uncl.

AGARKOV, F.; MAKSIMOVICH, V.; NAMYATYY, A.; PEVNYY, S.; TARAPATA, N.

Materials for the establishment of time norms for rest periods of miners in the coal mines of the Donets Basin. Biul. nauch. inform.;

trud i zar. plata 5 no.2:36-43 62. (MIRA 15:2)
(Donets Basir: "oal mines and mining) (Rest periods)

TAKARATO. LEV //.

TABLETON Level in inchener; USTYUGOV, P.G., redaktor;

TYURTAYEV, M.A., tekhnicheskiy redaktor.

[Experience of the Kirghis Petroleum Trust with directionally drilled wells] Opyt maklonno-napravlennogo bureniia skwashin v "Kirgiznefti." Frunze, Kirgizskoe gos.izd-vo, 1957. 31 p. (MIRA 10:11)

1. Kontora bureniya Ho.l "Kirgiznefti" (for Tarapatov).

(Oil well drilling)

LAPITSKIY, V.I., doktor tekhn.nauk, prof.; STUPAR', N.I., dotsent; STUPEL', S.I., inzh.; TARAPAY, M.A., inzh.; TIMOFEYEV, V.L., inzh.; YAKOVLEV, Yu.N., inzh.

Certain problems in the preparation of steel ingots for wheels. Izv. vys. ucheb. zav.; chern.met. no.5:21-28 My 158. (MIRA 11:7)

1. Dnepropetrovskiy metallurgicheskiy institut i zavod im. K. Libknekhta.

(Steel ingots)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754910017-6"

3/118/60/000/010/001/018 4161/A030

AUTHORS: Drughtnin, V.P.; Locko, V.A.; Sitayev, A.T.; Krumen, L.I.;

FOR PARKET SERVICE STREET, STR

Tarapay, M.A.; Chovela, L.A.; Yankelautat, Va.P.

TITLE: Investigation of the Thermal behaviour of Intermediate Indias

PERIODICAL: Izvestiya vysshikh uchel nykh zavedenij. Chernaya metailurriya,

1960, No. 10, pp. 58 - 66

The investigation had been carried out to determine the book losses from motal in intermediate ladder. Small ladde at the New-Tule Metallurgical Plant and large at the imeni Ezershinskiy Plant were studied. The small laddes were heated with blast furnade gas turning in an oxygen jet, and the large with coke gas; chromelalumel and platinum-hodium-platinum thermocouples were inserted into the ladde liminas as shown in Mig. 1 and 2; the metal temperature in laddes was measured with platinum-hodium-platinum and tungsten-molydenum immersion thermocouples; indicating and recording galvenometers and an 400 (EFF-09) writing potentiometer were used. The duration of teeming was 20 - 26 min at the New Tule Plant (MTM2) and 80 - 120 min at the ladde (Fig. 3) - there is negatically no

Card 1/3

\$/168/60/600/010/00°/015 #161/#030

Investigation of the Thermal Pohaviour of Intermediate Ladies

heat gradient inside the intermediate ladle, apparantly due to a feed of fresh hot motal from the main Ladle. The liming temperature on the surface quickly reached the motal temperature; it dropped nearly 18000 during 5 min after the pas henting was stopped before teeming. E.A. Iodko and L.I. Krupman calculated the heating of lining to determine the effect of separate Cactors. The "working" layer of lining was stated to be 20 - 30 mm in small ledies, and 60 - 20 mm in large, which is less or equal to the usual fireclay liming depth and should that additional host insulation of the ladle casines is superfluous. The calculation is included in the article. The formula (13) determines the effect of the lent conductivity of the Ladle lining on the drop in metal temporature in the ladle and shows that the relation is in direct proportion. The heat loss by radiation had not been considered. It was concluded that the heat conductivity in firecisy brick layers nearest to the contact surface with metal drops in the technic process and the first metal portions in the intermediate ladle are cooled by the liming surface, whilst the heat gradient inside the lining has proctically no influence. It is therefore proper to heat the lining at a high temperature on the surface ignoring high temperature gradients in the liming below the surface, and not to stop heating the Indle before the stirt of teeming. Conling of the first metal

Card 2/3

S/108/60/000/010/000/0

nortions can be decreased by faster filling. Prick with low heat conductivity on the surface must be used. The following participated in the investigation: Ye.I. Tsayev, Yu.Y. Yakovlev: Y.M. Klippa; S.P. Yefimov; C.L. Forman; S.L. Belogub; N.A. Rokhlin; F.I. Krasinskiy. V.I. Sapitskiv was in charge. There are being ures, 2 tables and b Soviet references.

ASSOCIATION: Novo-Tul'skiv metallurricheskiy zavod (New Tula Metallurric Plant), Zavod imeni Dzerzhinskogo (imeni Dzerzhinskiy Plant), ami Dnonrobe-

trovskiy metallurgicheskiy institut (Pneprepetrovsk Metailurgical

Institute) /ca

SUPMITTED:

/pr41 21, 1960

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Card 3/3

ISAYEV, Ye.I.; KUSHNAREV, I.T.; TARAPAY, M.A.; YAKOVLEV, Yu.N.;
LAPITSKIV, V.I., prof., doktor tekhn.nauk, nauchnyy rukovoditel' raboty

Developing an efficient type of nozzle and stopper for the continuous casting of steel. Izv.vys.ucheb.zav.; chern.met. 6 no.1:42-49 \*63. (MIRA 16:2)

1. Dnepropetrovskiy metallurgicheskiy institut.
(Continuous casting—Equipment and supplies)

ALTERNATURE OF THE TRANSPORT OF THE PROPERTY O

LAPITSKIY, V.I.; TARAPAY, M.A.; OKHOTSKIY, V.B.; LAYKO, B.G.; FIRER, L.M.
Prinimali uchastiye: SESYUK, G.S. [deceased]; KUSHMAREV, I.T.;
PATLAN', Ye.F.; PITOSHMICHRIKO, G.P.; SOSEDKO, P.M.

1. Dnepropetrovskiy metallurgicheskiy institut i Zavod im. K. Libknekhta.

# TAPAPCIK, J.

The Hricov-Miksova-Povazska Bystrica Water Works system. p.322.

STAVIA. (Poverenictvo stavebnictva) Bratislava, Czechoslovakia, Vol. 6, no. 11, Nov. 1959.

Monthly List of East European Accessi ns (Liki), LC, Vol. 9, no. 1, Jan, 1960

Uncl.

ZSICHOND, Istvan (Vecses, Voroshadsereg utja 190); TARAFCSIK, Janos (Monor, Petofi u.1); TOTH, Zoltan (Budapest XVI., Rakoczi u.128); SZALAI, Janos (Szecseny)

Motorists' letters. Auto motor 15 no.11:5 6 Je 162.

1. Jarasi foallatorves (for Szalai).

#### TARAPCIK, Josef

Development of technical conditions for the international navigation on the Danube. Kozl tud sz 14 no.9:396-402 S '64.

1. Head, Technical Division, Danube Commission.

SOV/115- 59-2-14/38

24(3)

AUTHOR: Konovalov. M.D., Rikhter, V.A., Tarapin, V.N.

TITLE:

A Photoelectric Apparatus for Measuring Torque (Fotoelektricheskiy pribor dlya izmereniya krutyashchikh

momentov)

PERIODICAL:

Izmeritel'naya tekhnika, 1959,

Nr 2, pp 28-29

(USSR)

ABSTRACT:

The photoelectric apparatus, developed by Professor S.A. Strelkov is for measuring torque on shafts of building and road construction machines. There are two variants of this apparatus, one for installing on shafts which may be removed for this purpose, and the second for nonremovable shafts. The apparatus works on storage batteries, which is very valuable during field tests. Torque measurement is done by light waves. The paper then describes briefly how both variants function. Tests made so far show that under field conditions, the degree of error is 3-4% and under laboratory conditions, it may

Card 1/2

be reduced to 2%. This apparatus has proved invaluable

SOV/115- 59-2-14/38

A Photoelectric Apparatus for Measuring Torque

in measuring torque of excavators, snow ploughs and other building and road construction machines. The editorial staff notes that the torsional gauge, developed and described by V.I.Zelenskiy in "Izmeritel'naya tekhnika", Nr 1, 1958, was designed on the principles of Professor Strelkov's photoelectric apparatus. There are 2 diagrams and 1 graph.

Card 2/2

LETOKHOV, V.S.; VATSUPA, V.V.; PUKHLIK, Yu.A.; FEDOTOV, D.I.; KOSOZHIKHIN, A.S.; ZHABOTINSKIY, M.Ye.; DASHEVSKAYA, Ye.I.; KOZLOV, A.N.; RUVINSKIY, L.G.; VASIN, V.A.; YURGENEV, L.S.; NOVOMIROVA, I.Z.; PETROVA, G.N.; SHCHEDROVITSKIY, S.S.; BELYAYEVA, A.A.; BRYKINA, L.I.; GLFBOV, V.M.; DRONOV, M.I.; KONOVALOV, M.D.; TAHAPIN, V.N.; MIKHAYLOVSKIY, S.S.; ZHEGALIN, V.G.; ZHABIN, A.I.; GRIBOV, V.S.; MAL'KOV, A.P.; CHERNOV, V.N.; RATNOVSKIY, V.Ye.; VOROB'YFVA, L.M.; MILOVANOVA, M.M.; ZARIPOV, M.F.; KULIKOVSKIY, L.F.; CONCHAPSKIY, L.A.: TYAN KHAK SU

Inventions. Avtom. i prib. no.1:78-80 Ja-Mr 165. (MIRA 18:8)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754910017-6"

SHCHEDROVITSKIY, S.S., kand.tekhn.nauk; KOPEYKINA, N.N., inzh.; TARAPIN, V.N., inzh.; GOLOVKO, Z.I., inzh.; KISELEVSKIY, S.I., inzh.; GOLOVANOV, A.I., inzh.

Universal loader limiter. Bezop.truda v prom. 5 no.7:16-19 Jl '61. (MIRA 14'6)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001754910017-6"

AKOL'ZIN, P."; ARAKEL'YANTS, N.M.; BUYANOVA, O.A.; KIRNOSOV, V.I.; KISELEVSKIY, S.L.; TARAPIN, V.N.; SHCHEDROVIESKIY, S.S.; EYDEL'MAN, R.Ya.

PRODUCTION OF THE PRODUCTION O

Unified series of strain gauges for the automation of construction and road machinery. Priborostroenie no.8:11-12
Ag '62. (MIRA 15:9)

(Strain gauges)

TARAPINA, T.V.

Effect of ionizing radiation on the cardiac muscle of manuals.

Dokl. AN SSSR 152 no.1:202-204 S '63. (MIRA 16:9)

1. Ryazanskiy meditsinskiy institut im. Pavlova. Predstavleno akademikom K.I.Skryabinym.

(X RAYS-PHYSIOLOGICAL KFFECT) (MEANT-MUSCLE)

TARAPINA, T. V. "Reactive Changes and Mycardial Regeneration in Mammals Following Burn and Radiation Shock." Destructive morphological changes occured in the mycardia of rats subjected to lethal and subjethal does of radiation. The stillity of the mycardium to regenerate was inhibited in proportion to the intensity of radiation.

。 《1981年1987年 - 1987年 - 19874

L 04717-67 EWT(m)/EWP(v)/EWP(L)/ETI/EWP(k) IJP(c) JD/HM SOURCE CODE: UR/0125/66/000/007/0012/0015 ACC NRI AP6027430 AUTHOR: Fil'chakov, P. F.; Terepon, A. G.; Burykin, A. Ya.; Rysbov, v. R. 86 P ORG: Fil'chakov; Tarapon; Burykin Mathematics Institute AN UkrSSR (Institut matematiki AN UkrSSR); Ryabov Institute of Electric Welding im. Ye. O. Paton AN UkrssR (Institut elektrosverki AN UkrssR) TITLE: Investigation of the nonstationary heat field in the bimetal eluminum-steel SOURCE: Avtomaticheskaye sverke, no. 7, 1966, 12-15 TOPIC TAGS: bimetal, aluminum, steel, wolding technology, heat transfer, heat conduction, simulation, graphic technique ABSTRACT: A method is described for simulating unstationary heat fields on electrically conducting paper. This mathod makes it possible to find the general principles of heat diffusion in the welding of motals in different combinations without resorting to complex experiments. Transitional heat fields were determined for different bimetallic combinations of ADI/or AMg6/eluminum and St.3/or 1Kh18N9T steel. relationship was established between the time required for transition UDC: 621.791:669.14:669.71:536.12 Card 1/2

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L 04717-67 ACC NR: AP6027430

lines to reach unsafe temperatures and the ratio of the thicknesses and the thermophysical properties (heat conductivity and specific heat) of the dissimilar metals to be joined. A Nomograms were constructed for calculating the time required for the aluminum-steel bimetal transition lines to attain critical temperatures (over 520°C). Orig. art. has: 1 table and 7 equations.

SUB CODE: 11, 13, 20/ SUBM DATE: 09Mer65/ ORIG REF: 003

Cord 2/2 afs

S/271/63/000/003/029/049 A060/A126

AUTHOR:

Tarapon, A.G.

TITLE:

Instrument B3N-2/61 (VEL-2/61) for visual observation of equipo-

tential lines

PERIODICAL:

Referativnyy zhurnal, Avtomatika, telemekhanika i vychklitel'naya tekhnika, no. 3, 1963, 14 - 15, abstract 3B78 (Dokl. 4-y Mezhvuz. konferentsii po primeneniyu fiz. i matem. modelirovaniye v razlichn.

otraslyakh tekhn. Sb. 1, Moscow, 1962, 351 - 356)

TEXT: The author describes the instrument VEL-2/61 which affords the possibility of seeing and fixating any equipotential lines of electrical simulators made from electrically conductive paper or from impedance grids. The instrument consists of a simulator, commutating switch made of photoresistors, a comparator unit for comparing a signal to a specified signal, an indicator unit with output to a cathode-ray tube, and a power supply. The commutating switch serves to feed the values of the potentials in the simulator to the comparator unit, and also to supply a synchronizing pulse to the indicator unit. The com-

Card 1/2

Instrument B9J-2/61 (VEL-2/61) for visual ....

\$/271/63/000/003/029/049 A060/A126

mutating switch operates in the following manner: the photoresistors are situated in rows one next to the other and light up by a running light beam whose width is equal to the width of the photoresistor. If at any instrument the light spot is projected on the photoresistor connected to the simulator at a point with potential  $\varphi$  then at the output of the commutator there will occur a potential  $U_1$  corresponding to  $\varphi$ . There are 3 figures and 5 references.

A. S.

[Abstracter's note: Complete translation]

Card 2/2

s/041/62/014/004/006/007 B172/B112

AUTHOR:

Tarapon, A. G. (Kiyev)

On a method of visualizing equipotential lines

TITLE:

PERIODICAL:

Ukrainskiy matematicheskiy zhurnal, v. 14, no. 4, 1962,

TEXT: An instrument developed at the laboratory for electric simulation of the Academy of Sciences USSR is described. The plane potential is tapped at individual points. Photoconductive cells, sucessively connected without any species between them, are illuminated cyclically by a light source so as any specyes between them, are illuminated cyclically by a light source so as to obtain a continuous signal from the discrete values \( \text{n} \) which controls an oscilloscope. The width of the light beam is equal to that of one cell. The potential \( \text{p} \) is on one side of the n-th cell. The other sides of the cell form the output where the continuous signal desired appears. This arrangement has the following advantages: absence of mechanical parts, long lifetime, and simple synchronization with the oscilloscope. Boundary value problems for the Laplace equation were studied on a model with 16 cells. There are 3 figures. Card 1/2

On a method of visualizing ...

SUBMITTED: October 18, 1960

Card 2/2

PARAPON, V.A.

USSR/Optics - Physical Optics.

K-5

Abs Jour

: Referat Zhur - Fizika, No 3, 1957, 7735

Author

: Roshchina, Dadentova, Tarapon. V.A.

Inst

Title

: Investigation of Molecular Scattering of Light in

Alcohol Solutions.

Orig Pub

: Woi. fiz. zh., 1956, 1, No 2, 183-192

Abstract

The influence of the temperature and concentration on the intensity of the Isotropic and anisotropic portions of the Rayleigh scattering was investigated for binary solutions of alcohols (ethyl and butyl) both in each other, as well as in solvents having in the liquid state a molecular structure that is different from that of alcohols (clycerin, acetone, benzol,  $CCl_{\frac{1}{4}}$ , and dioxane). Use was made of the classification of solutions, resulting from data of X-ray diffraction, according to which in first approximation the colutions can be separated into

Card 1/3

- 36 -

USSR/Option - Physical Optios.

Abs Jour : Referat Zhur - Fizika, No 3, 1957, 7735

molecularly miscible, molecularly inmiscible, and their solutions with chemical interaction between components. On the basis of the type of the isotherms of the isotropic scattering, conclusions are drawn concerning the miscibility or immiscibility of the components of the solution. Among the solutions investigated there were encountered representatives of all three of the above groups of solutions. Thus, solutions of ethanol and butanol in each other, the solutions of butanol and acetone and dioxane should be classified as molecularly miscible solutions. In solutions of ethanol and butanol in benzol and glycerin one observes a noticeable concentration scattering, due to the molecular immiscibility of the components. Finally, solutions of ethanol and butanol in carbon tetrachloride must be classified as solutions with chemical interaction between the components. It was established that fundamentally the

Card 2/3

- 37 -

USSR/Optics - Physical Optics.

K-5

Abs Jour

: Referat Zhur - Fizika, No 3, 1957, 7735

inmiscibility of the components is determined by the character of the intermolecular interaction between the different particles of the solution components, and its intensity. If the fundamental character of the interaction between the particles of the solution is similar, the inmiscibility can be caused by the difference in the dimension of the molecules.

Card 3/3

- 38 -

# TARAPON, Yu.G. Modification of an endoscope with a spatule for extrapleural pneumonolysis. Probl.tub. 34 no.3:69 My-Je '56. (MLRA 9:11)

pleumonolysis)

1. Iz khirurgicheskogo otdeleniya (zav. - dotsent G.G.Gorovenko) Ukrainskogo instituta tuberkuleza imeni F.G.Yanovskogo (dir. A.S. Mamolat)

(GOLLAPSE THERAPY
pneumonolysis, extrapleural, use of modified andoscope
with spatula)
(SURGERY, OPERATIVE, appar. and instruments
modified endoscope with spatula for extrapleural

A SANCTOR OF THE PROPERTY OF T

GOROVENKO, G.G., starshiy nauchnyy sotrudnik; MIKHEL SON, B.V., nauchnyy sotrudnik; YATSOZHINSKIY, Yu.D., nauchnyy sotrudnik TARAPON, Yu.G., nauchnyy sotrudnik

Causes of the ineffectiveness of lung collapse surgery in pulmonary tuberculosis. Pat., klin.i terap.tub. no.8:377-381 158.

(MIRA 13:7)

1. Iz Ukrainskogo nauchno-issledovatel skogo instituta tuberkuleza im. akad. F.G. Tanovskogo. (TUBERGULOSIS) (LUEGS--COLLAPSE)

TARAFON, Yu. G., Candidate of Med Sci (diss) -- "The prophylaxis and treatment of operational and immediate postoperational complications in extrapleural pneumothorax". Kiev, 1959. 15 pp (Kiev Order of Labor Red Banner Med Inst im Acad A. A. Bogomolets), 220 copies (KL, No 21, 1959, 121)

GOROVENKO, G. G.; BRUSILOVSKIY, B. M.; LOZOVOY, Ye. Kh.; MARSHAK, A. Yu.; MIKHEL'SON, B. V.; PILIPCHUK, N. S.; SLEPUKHA, I. M.; SOKOLIK, Yu. I.; TARAPON, Yu. G.; YATSOZHINSKIY, Yu. D.

Results of the use of thoracoplasty and extrapleural pneumolysis in pulmonary tuberculosis. Probl. tub. no.2:24-29 '62. (MIRA 15:2)

1. Iz 1-go khirurgicheskogo otdeleniya (zav. - st. nauchnyy sotrudnik G. G. Gorovenko) Ukrainskogo nauchno-issledovateliskogo instituta tuberkuleza imeni akad. F. G. Yanovskogo (dir. - dotsent A. S. Mamolat)

> (TUBERCULOSIS) (LUNGS—COLLAPSE) (CHEST—SURGERY)

#### CIA-RDP86-00513R001754910017-6 "APPROVED FOR RELEASE: 07/13/2001

USSR/Mechanics - Hydromechanics

FD-2481

Card 1/1

Pub 85-8/19

Author

Tarapov, I. Ye.

Title

Solution of the problem of the motion of a viscous gas between two

moving parallel plates with heat emission

Periodical: Prikl. Mat. i Mekh., 19, 325-330, May-June 1955

Abstract

: The author states that problems arising in the study of the motion of a viscous gas with various temperature boundary conditions is of interest for gas-dynamic lubrication theory (theory of lubrication by compressed gas) and for the theory of heat transfer. The author develops the exact solution of the problem for the case of motion of

the gas between parallel plates.

Institution:

Submitted: February 25, 1954

V Tarapov, I. E. Solution of a problem of motion of a viscous gas between two moving parallel plates with heat loss.

Prikl. Mat. Meh. 19, 325-330 (1955). (Russian)

Viscous gas flows steadily between two planes, each at a constant temperature, and one in uniform motion parallel to the other which is fixed. The pressure gradient in the direction of motion is assumed to be zero. Non-dimensional equations of motion and energy are then obtained in the forms

 $\frac{d}{dy}\left(T^{-}\frac{dv}{dy}\right)=0, \quad \frac{d}{dy}\left(T^{-}\frac{d\Theta}{dy}\right)=0,$ 

where y is the coordinate perpendicular to the planes and v, T,  $\Theta$  are respectively velocity, temperature and total head temperature. This reduction depends on the viscosity being proportional to a power  $T^m$ , and on the (unstated) assumption that the specific heat  $c_p$  is independent of temperature. It follows at once that T is a quadratic function of v, and then y is found as an incomplete beta-function of v. The results are applied to several particular cases of the boundary conditions.

L. M. Milne-Thomson (Greenwich).

124 58-6 6731

Translation from 'Referativnyy zhurnal, Mckhanika, 1958, Nr 6, p 61 (USSR)

AUTHOR: Tarapov, 1. Ye.

TITLE: The Motio

The Motion of a Plate Having Weight in a Viscous Liquid Contained Between Two Parallel Flat Surfaces (Dvizheniye vesomoy plastiny v vyazkoy zhidkosti mezhdu dvumya parallelinymi ploskostyami)

PERIODICAL: Uch. zap. Khar'kovsk. un-t, 1957, Vol 80, Zap. Matem. otd. fiz.-matem. fak. i Khar'kovsk. matem. o-va, Vol 25, pp 107-111

ABSTRACT:

A plate having weight is placed in a viscous liquid contained between two moving flat surfaces at a small angle relative to the two surfaces. The flow is considered stationary and the equations of the theory of hydrodynamic lubrication are used for the solution of the problem. If the weight and orientation of the plate are given, then out of the conditions of equilibrium of the plate a system of algebraic equations is obtained for the determination of the relative velocities. It is assumed therein that the moment of the pressure forces relative to the center of gravity of the plate is equalized by suitable means. The expression for the determination of the vertical force acting on the flat surfaces as the result of the presence of the plate is worked out.

1. Hydrodynamics research

V.N. Rumyantsev

Card 1/1

sov/123-59-15-59152

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 15, p 38 (USSR)

AUTHORS: Tarapov, I.Ye., Bondarenko, L.I.

TITLE: Some Problems in the Theory of Lubrication of Surfaces of Revolution

PERIODICAL: Uch. zap. Khar'kovsk. gos. ped. in-ta, 1957, Vol 21, pp 25 - 36

ABSTRACT: The article has not been reviewed.

Card 1/1

GERMAN, V.L., prof.; TARAPOV, I.Te. (Khar'kov)

Hydrodynamic and aerodynamic lubrication theories. Uch.
sap.KHGU 80:101-106 '57. (MIBA 12:11)

(Lubrication and lubricants) (Fluid dynamics)

BORISENKO, Aleksandr Ivanovich; TARAPOV. Ivan Isvgon'yevich; RLANK,
Yn.P., prof., otv.red.; GERMAN, V.L., prof., otv.red.;
TRET'IAKOVA, A.M., red.; TROVINGMKO, A.S., tekm.red.

[Vector enalysis and the beginnings of the calculus of tensors]
Vektornyi analiz i nachals tensornogo ischialeniis. Ehar'kov.

Izd-vo Ehar'kovskogo gos.univ., 1959. 27 p. (NIRA 13:8)

(Calculus of tensors) (Vector enalysis)

SOV/179-59-2-35/40

AUTHOR: Tarapov, I. Ye. (Khar'kov)

TITLE: On the Problem of the Lubricant of Collar Bearings (K zadache o smazke kol'tsevogo podpyatnika)

PERIODICAL: Izvestiya Akademii nauk SSSR OTN, Mekhanika i mashinostroyeniye, 1959, Nr 2, pp 194-197 (USSR)

ABSTRACT: The author describes an approximate method of calculating the hydrodynamic conditions of the lubricant. It is assumed that the clearance h between the collars of the Reynold's number are small. Therefore, the expression (1) can be derived where R - characteristic radius of collars, w - their characteristic angular velocity. It is also assumed that:

 $v_r^o \ll \omega R$  and  $v_r^o \sim \omega R \omega h^2 / v$ 

(Eq 2) (  $v^0$  - characteristic radial velocity). Then the problem can be described by the basic equations, Eqs (3) to (7). The solution of this system of equations can be found when the conditions Eq (8) are defined. Then the solution

Card 1/4

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On the Problem of the Lubricant of Collar Bearings

will take the form of Eq (12). The force P and the friction moment M affecting the collars can be determined from Eqs (13) and (14). The following deductions can be made when analyzing the functions  $f_1(x)$ ,  $f_2(x)$  and  $f_3(x)$  in Eq (13):(1) For every  $\beta_1$  such a ratio of maximum radii exists, for which  $P_1 = P_1(x)$  has a maximum. This ratio is equal approximately 2 for  $\beta \sim 1$ . (2) The function  $P_2 = P_2(x)$  has a maximum only when  $\beta_2 < 1$ . (3) For the maximum force P, the external supply of lubricant is advisable  $(p_2 > p_1)$ . The calculation of bearings can be performed as follows:

Let  $\rho = 0.9 \text{ g/cm}^3$ ,  $R_2 = 10 \text{ cm}$ ,  $n_2 = 10 000 \text{ rpm}$ , then  $\alpha = \rho R_2^2 \frac{3}{20} \left(\frac{\pi n_2}{30}\right)^2 = 1.48 \times 10^7 \text{ bar} = 14.7 \frac{\text{kg}}{\text{cm}^2}$ 

Card 2/4 In the case of lubricant supply under pressure, the value of

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$$P^0 = P_1/\pi R_2^2 \alpha = 0.23$$
  $P_1 = 0.23\pi R_2^2 \alpha = 1065 \text{ kg}$ 

For all other cases of  $R_2/R_1$ , the values of  $P_1$  are smaller ( $R_1$  - internal,  $R_2$  - external, radii of collar).

Card 3/4

SOV/179-59-2-35/40

On the Problem of the Lubricant of Collar Bearings

The output of the lubricant through the clearance between the collars can be found from Eq (17). There is 1 figure.

SUBMITTED: October 1, 1958.

Card 4/4

s/024/60/000/03/023/028 E081/E441 Tarapov, 1.Ye. (Khar'kov) Free Convection in a Tube Rotating About an Axis AUTHOR: PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Energetika i avtomatika, 1960, Nr 3, pp 171-175 (USSR) The convection is discussed of a viscous incompressible liquid in an infinite horizontal tube, rotating with constant angular velocity (w) about an axis parallel to ABSTRACT: the axis of the tube and distance from it (Fig 1). The problem is formulated and analysed using vector methods in conjunction with the dimensionless variables Two particular and notation given at the top of p 172. and convection cases are dealt with (p 174), (1)  $u^2R \gg g$ , from gravitational forces can be neglected, and (2) w2R Kg, and convection from gravitational forces In this case, formulae are derived (top of p 175) for the flow Q through the tube from convection, and the flow of heat q through the distribution in the first case (w2R) g) is shown in wall of the tube. Fig 2. For  $\varepsilon$  (= r/L) =  $\infty$  the isothermals are circles Card 1/2

#### "APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001754910017-6

S/024/60/000/03/023/028 E081/E441

Free Convection in a Tube Rotating About an Axis

For  $\epsilon \rightarrow 0$  the isothermals are symmetrical about perpendicular axes and for  $\epsilon = 5$  and  $0 \leqslant \epsilon \leqslant 5$  intermediate diagrams are obtained. There are 2 figures.

SUBMITTED: June 20, 1959

Card 2/2

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AUTHORS:

Dikiy, G. P., and Tarapov, I. Ye.

TITLE:

Some self-similation problems of magnetohydrodynamics with

axial symmetry

PERIODICAL:

Zhurnel tekhnicheskoy fiziki, v. 32, no. 11, 1962, 1302-1312

TEXT: The nonstationary equations of magnetohydrodynamics for an incompressible viscous fluid of finite conductivity are given by Eq. (1) and (2) if axial symmetry is assumed and cylindrical coordinates are used:

 $\frac{\partial H_r}{\partial t} \to \upsilon_r \frac{\partial H_r}{\partial r} = H_r \frac{\partial \upsilon_r}{\partial r} + \upsilon_m \frac{\partial}{\partial r} \left( \frac{1}{r} \frac{\partial}{\partial r} (rH_r) \right),$   $\frac{\partial H_q}{\partial t} \to \upsilon_r \frac{\partial H_q}{\partial r} + \frac{\upsilon_q H_r}{r} = H_r \frac{\partial \upsilon_q}{\partial r} + \frac{H_q \upsilon_r}{r} + \upsilon_m \frac{\partial}{\partial r} \left( \frac{1}{r} \frac{\partial}{\partial r} (rH_q) \right),$   $\frac{\partial H_q}{\partial t} \to \upsilon_r \frac{\partial H_s}{\partial r} = H_r \frac{\partial \upsilon_s}{\partial r} + \upsilon_m \frac{1}{r} \frac{\partial}{\partial r} \left( r \frac{\partial H_s}{\partial r} \right); \quad \frac{1}{r} \frac{\partial}{\partial r} (rH_r) = 0.$ 

Card 1/6

S/057/62/032/011/003/014 B104/B102

$$\frac{\partial v_{r}}{\partial t} + v_{r} \frac{\partial v_{r}}{\partial r} - \frac{v_{q}^{3}}{r} = \frac{1}{\rho} \frac{\partial P_{m}}{\partial r} + \frac{1}{4\pi\rho} \left( H_{r} \frac{\partial H_{r}}{\partial r} - \frac{H_{q}^{3}}{r} \right) + \frac{1}{\rho} \frac{\partial v_{q}}{\partial r} + v_{r} \frac{\partial v_{q}}{\partial r} + \frac{v_{r}v_{q}}{r} = -\frac{1}{2r} \frac{\partial P_{m}}{\partial \rho} + \frac{1}{4\pi\rho} \left( H_{r} \frac{\partial H_{q}}{\partial r} + \frac{H_{r}H_{q}}{r} \right) + \frac{1}{\rho} \frac{\partial v_{q}}{\partial r} + v_{r} \frac{\partial v_{q}}{\partial r} = -\frac{1}{\rho} \frac{\partial P_{m}}{\partial \sigma} + \frac{1}{4\pi\rho} \left( rv_{q} \right) \right),$$

$$\frac{\partial v_{q}}{\partial t} + v_{r} \frac{\partial v_{q}}{\partial r} = -\frac{1}{\rho} \frac{\partial P_{m}}{\partial \sigma} + \frac{1}{4\pi\rho} H_{r} \frac{\partial H_{q}}{\partial r} + v \frac{1}{r} \frac{\partial}{\partial r} \left( r \frac{\partial v_{q}}{\partial r} \right),$$

$$\frac{1}{r} \frac{\partial}{\partial r} \left( rv_{r} \right) = 0; \quad P_{m} = \rho + \frac{H^{2}}{8\pi},$$
(2)

(L. D. Landau and Ye. M. Lifshits, Elektrodinamika sploshnykh sred - Electrodynamics of continuous media, GITTL, M., 1957). From these equations follows

Card 2/6

8/057/62/032/011/005/014 B104/B102

$$P_{\mathbf{n}} = P_{1}(t, r) + P_{2}(t) \cdot \mathbf{z},$$

$$v_{r} = \frac{Q(t)}{2\pi}; H_{r} = \frac{\Phi(t)}{2\pi} \frac{1}{r},$$
(3),

where Q(t) is the quantity of fluid passing through the cylindrical surface, and  $\underline{\Phi}(t)$  is the magnetic flux.  $\overline{\Phi}(t)$  is constant and Q(t) is assumed to be constant.  $P_2(t)$  is assumed known and  $P_1(t,r)$  is obtained by integrating the first equation of (2). The problem is thus reduced to the determination of  $\mathbf{v}_q$ ,  $\mathbf{v}_g$ ,  $\mathbf{H}_q$ , and  $\mathbf{H}_g$  from the system

$$\frac{\partial H_{\varphi}}{\partial t} + \frac{Q}{2\pi r} \frac{\partial H_{\varphi}}{\partial r} + \frac{\Phi}{2\pi r^{2}} \upsilon_{\varphi} = \frac{\Phi}{2\pi r} \frac{\partial \upsilon_{\varphi}}{\partial r} + \frac{Q}{2\pi r^{2}} H_{\varphi} + \upsilon_{m} \frac{\partial}{\partial r} \left( \frac{1}{r} \frac{\partial}{\partial r} (r H_{\varphi}) \right).$$

$$\frac{\partial \upsilon_{\varphi}}{\partial t} + \frac{Q}{2\pi r} \frac{\partial \upsilon_{\varphi}}{\partial r} + \frac{\upsilon_{\varphi}}{r} \right) = \frac{\Phi}{8\pi^{3}\rho r} \left( \frac{\partial H_{\varphi}}{\partial r} + \frac{H_{\varphi}}{r} \right) + \upsilon_{m} \frac{\partial}{\partial r} \left( \frac{1}{r} \frac{\partial}{\partial r} (r \upsilon_{\varphi}) \right),$$

$$\frac{\partial H_{\varphi}}{\partial t} + \frac{Q}{2\pi r} \frac{\partial H_{\varphi}}{\partial r} = \frac{\Phi}{2\pi r} \frac{\partial \upsilon_{\varphi}}{\partial r} + \upsilon_{m} \frac{1}{r} \frac{\partial}{\partial r} \left( r \frac{\partial H_{\varphi}}{\partial r} \right),$$

$$\frac{\partial \upsilon_{\varphi}}{\partial t} + \frac{Q}{2\pi r} \frac{\partial \upsilon_{\varphi}}{\partial r} = -\frac{P_{2}(t)}{\rho} + \frac{\Phi}{8\pi^{2}\rho r} \frac{\partial H_{\varphi}}{\partial r} + \upsilon_{r} \frac{1}{r} \frac{\partial}{\partial r} \left( r \frac{\partial \upsilon_{\varphi}}{\partial r} \right).$$
(4)

Card 3/6

S/057/62/032/011/003/014 B104/B102

The solution of (4) ale sought in the form

$$H_{\varphi} = H_{\varphi 0} r^{\alpha} g(\zeta), \quad H_{\sigma} = H_{\sigma 0} r^{\beta} h(\zeta),$$

$$v_{\varphi} = v_{\varphi 0} r^{\alpha} f(\zeta), \quad v_{\sigma} = v_{\sigma 0} r^{\beta} \psi(\zeta),$$

$$P_{3}(t) = P_{70} \cdot t^{2\beta - \delta}.$$
(5)

where  $H_{\phi 0}$ ,  $H_{g 0}$ ,  $v_{\phi 0}$ ,  $v_{g 0}$ ,  $P_{20}$  and  $\beta$  are constants and the dimensionless functions g, h, f, and  $\psi$  are functions of the dimensionless variable  $f = r^2/4vt$ . Assuming the form (5) the system:

$$-4\zeta^{2}g' + \frac{Q}{2\pi\nu}[(\alpha - 1)g + 2\zeta g'] = \frac{\Phi v_{r\theta}}{2\pi\nu H_{r\theta}}[(\alpha - 1)f + 2\zeta f'] + \frac{v_{rr}}{\nu}[(\alpha^{2} - 1)g + 4(\alpha + 1)\zeta g' + 4\zeta^{2}g''],$$

$$-4\zeta^{2}f' + \frac{Q}{2\pi\nu}[(\alpha + 1)f + 2\zeta f'] = \frac{\Phi H_{r\theta}}{8\pi^{2}\rho v_{r\theta}}[(\alpha + 1)g + 2\zeta g'] + \frac{(\alpha^{2} - 1)f + 4(\alpha + 1)\zeta f' + 4\zeta^{2}f'',}{(\alpha^{2} - 1)f + 4(\alpha + 1)\zeta f' + 4\zeta^{2}f'',}$$

$$-4\zeta^{2}h' + \frac{Q}{2\pi\nu}[\beta h + 2\zeta h'] = \frac{\Phi v_{r\theta}}{2\pi\nu H_{r\theta}}[\beta \psi + 2\zeta \psi'] + \frac{v_{r\theta}}{\nu}[\beta^{2}h + 4(\beta + 1)\zeta h' + 4\zeta^{2}h''],$$

$$(7)$$

Card 4/6

\$/057/62/032/011/003/014 B104/B102

$$-4\zeta^{2}\psi' + \frac{Q}{2\pi\nu}[\beta\psi + 2\zeta\psi'] = -\frac{P_{20}\zeta^{4} - 2\zeta}{\nu\rho\sigma_{20}(4\nu)4^{-6}} + \frac{\Phi H_{20}}{8\pi^{2}\rho\nu\sigma_{20}}[\beta h + 2\zeta h'] + \beta^{2}\psi + 4(\beta + 1)\zeta\psi' + 4\zeta^{2}\psi'.$$

is obtained which cannot be solved in general. For the following special cases (7) is solved: (1) In an investigation of the vortex sources in the usual hydrodynamics (H = 0) it is shown that an initial vortex source of the form  $v_T = Q/2\pi r$ ,  $v = \gamma_0/2\pi r$ , does not change its configuration and that sources or sinks alter the diffusion velocity of the vortex in the fluid. (2) The diffusion of the vortex of the magnetic field: The problem leads to the solution of the first equation of (7) with  $\alpha = -1 + Q/2$ . (3) The damping of a magnetic vortex field in a rotating fluid in the presence of a radial magnetic field: The functions  $g(\frac{\alpha}{r})$  and  $f(\frac{\alpha}{r})$  are determined from the first two equations of the system (7). (4) The damping of the axial magnetic field in the presence of a sink:  $H_Z$  is determined as a function of time from the function  $h(\frac{\alpha}{r})$  which satisfies the third equation of the system (7) with  $\frac{\alpha}{r} = \frac{\alpha}{r}$ . (5) The damping of the axial magnetic field and the axial motion of the fluid in Card 5/6

S/057/62/032/011/003/014 B104/B102

the presence of a constant radial field: The solution of the nonstationary problem has the form:

$$H_{s}(t, r) = \frac{\Phi}{2\pi v_{m}} Cr^{-1} h(\zeta),$$

$$v_{s}(t, r) = \lambda Cr^{-1} \psi(\zeta).$$

where h( $\xi$ ) and  $\psi(\xi)$  satisfy the last two equations of (7) with  $\beta=-\lambda$ . There are 5 figures.

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Card 6/6

S/057/62/032/011/004/014 B104/B102

AUTHORS:

Dikiy, G. P., and Tarapov, I. Ye.

TITLE:

Some stationary problems of magnetohydrodynamics with

axial symmetry

PERIODICAL: Zhurnal tekhnicheskoy fiziki, v. 32, no. 11, 1962, 1335-1341

TEXT: The stationary motion of an incompressible viscous fluid with finite conductivity is considered assuming that  $\vec{v}$  and  $\vec{H}$  are independent of the coordinates  $\varphi$  and z. In this case the general magnetohydrodynamics in cylindrical coordinates lead to:

$$v_{r} \frac{dH_{r}}{dr} = H_{r} \frac{dv_{r}}{dr} \rightarrow v_{m} \frac{dr}{dr} \left(\frac{1}{r} \frac{d}{dr} (rH_{r})\right);$$

$$v_{r} \frac{dH_{2}}{dr} \rightarrow \frac{v_{y}H_{r}}{r} = H_{r} \frac{dv_{2}}{dr} \rightarrow \frac{H}{r} \frac{v_{r}}{r} \rightarrow v_{m} \frac{d}{dr} \left(\frac{1}{r} \frac{d}{dr} (rH_{y})\right);$$

$$v_{r} \frac{dH_{r}}{dr} = H_{r} \frac{dv_{r}}{dr} \rightarrow v_{m} \frac{1}{r} \frac{d}{dr} \left(r \frac{dH_{r}}{dr}\right);$$

$$\frac{1}{r} \frac{d}{dr} (rH_{r}) = 0.$$
(1)

Card 1/6

Some stationary problems of ...

S/057/62/032/011/004/014 B104/B102

$$\frac{dv_r}{dr} - \frac{v_{\varphi}^2}{r} = -\frac{1}{\rho} \frac{\partial P_m}{\partial r} + \frac{1}{4\pi\rho} \left( H_r \frac{dH_r}{dr} - \frac{H_{\varphi}^2}{r} \right) + v \frac{d}{dr} \left( \frac{1}{r} \frac{d}{dr} (rv_r) \right);$$

$$v_r \frac{dv_r}{dr} + \frac{v_r v_{\varphi}}{r} = \frac{1}{4\pi\rho} \left( H_r \frac{dH_r}{dr} + \frac{H_r H_{\varphi}}{r} \right) + v \frac{d}{dr} \left( \frac{1}{r} \frac{d}{dr} (rv_{\varphi}) \right);$$

$$v_r \frac{dv_z}{dr} = -\frac{1}{\rho} \frac{\partial P_m}{\partial z} + \frac{1}{4\pi\rho} H_r \frac{dH_r}{dr} + v \frac{1}{r} \frac{d}{dr} \left( r \frac{dv_z}{dr} \right);$$

$$\frac{1}{r} \frac{d}{dr} (rv_r) = 0; \quad P_m = p + \frac{H^2}{8\pi},$$
(2)

(L. D. Landau and Ye. M. Lifshits, Elektrodinamika soloshnykh sred, Electrodynamics of continuous media, GITTL, M., 1957). From these equiptions and the assumed axial symmetry it follows that

$$P_{m} = P_{1}(r) + P_{s} \cdot z; v_{r} = \frac{Q}{2\pi} \frac{1}{r}; \quad H_{r} = \frac{\Phi}{2\pi} \frac{1}{r}.$$
 (3),

Card 2/6

Some stationary problems of ...

S/057/62/032/011/004/014 B104/B102

where Q is the quantity of liquid flowing through the cylindrical surface and  $\hat{Z}$  is the magnetic flux. The constant gradient of pressure  $P_{m}$  along the axis of symmetry is assumed to be known,  $P_{\gamma}(r)$  is obtained by the integration of the first equation of (2). Thus the problem is reduced to determining  $V_{\varphi}$ ,  $V_{z}$ ,  $H_{\varphi}$ , and  $H_{z}$  from the system

$$\frac{d}{dr}\left(\frac{1}{r}\frac{d}{dr}(rH_{\psi})\right) - \frac{Q}{2\pi\nu_{m}}\frac{d}{dr}\left(\frac{H_{2}}{r}\right) + \frac{\Phi}{2\pi\nu_{m}}\frac{d}{dr}\left(\frac{\upsilon_{z}}{r}\right) = 0;$$

$$\frac{d}{dr}\left(\frac{1}{r}\frac{d}{dr}(r\upsilon_{\psi})\right) - \frac{Q}{2\pi\nu}\frac{1}{r^{2}}\frac{d}{dr}(r\upsilon_{\psi}) + \frac{\Phi}{8\pi^{2}\gamma^{2}}\frac{1}{r^{2}}\frac{d}{dr}(rH_{\psi}) = 0;$$

$$\frac{d}{dr}\left(r\frac{dH_{r}}{dr}\right) - \frac{Q}{2\pi\nu_{m}}\frac{dH_{s}}{dr} + \frac{\Phi}{2\pi\nu_{m}}\frac{d\upsilon_{s}}{dr} = 0;$$

$$\frac{d}{dr}\left(r\frac{d\upsilon_{s}}{dr}\right) - \frac{Q}{2\pi\nu}\frac{d\upsilon_{s}}{ur} + \frac{\Phi}{2\pi^{2}\gamma^{2}}\frac{dH_{s}}{dr} = \frac{P_{z}}{\gamma^{2}} \cdot r.$$
(4)

whose general solution is:

Card 3/6

Some stationary problems of ...

$$H_{q} = \frac{\Phi}{2\pi v_{m}} (C_{1}r^{1_{1}} + C_{2}r^{1_{2}}) + 4\pi \hat{r}_{1}QC_{2}r + \Phi C_{4}\frac{1}{r};$$

$$v_{q} = \left(\frac{Q}{2\pi v_{m}} - 1 - \lambda_{1}\right)C_{1}r^{1_{1}} + \left(\frac{Q}{2\pi v_{m}} - 1 - \lambda_{2}\right)C_{2}r^{1_{2}} + \Phi C_{2}r + QC_{4}\frac{1}{r};$$

$$H_{s} = \frac{\Phi}{2\pi v_{m}} (C_{4}r^{1_{2}} + C_{4}r^{1_{2}}) + C_{7} - \frac{4\pi^{2}\Phi P_{7}}{4\pi^{2}(4\pi v - Q_{1}(4\pi v_{m} - Q) - \Psi^{2})}r^{2};$$

$$v_{s} = \left(\frac{Q}{2\pi v_{m}} - \lambda_{3}\right)C_{2}r^{1_{2}} + \left(\frac{Q}{2\pi v_{m}} - \lambda_{4}\right)C_{6}r^{1_{1}} + C_{8} + \frac{4\pi^{2}(4\pi v_{m} - Q)P_{2}}{4\pi^{2}(4\pi v - Q)(4\pi v_{m} - Q) - \Psi^{3}}r^{2};$$

$$\lambda_{1,2} = \frac{Q}{4\pi} \left( \frac{1}{\nu} + \frac{1}{\nu_{m}} \right) \pm \sqrt{\left[ 1 + \frac{Q}{4\pi} \left( \frac{1}{\nu} + \frac{1}{\nu_{m}} \right) \right] + \frac{m^{2}}{16\pi^{2} p \nu_{m}}},$$

$$\lambda_{2,4} = \frac{Q}{4\pi} \left( \frac{1}{\nu} + \frac{1}{\nu_{m}} \right) \pm \sqrt{\left[ \frac{Q}{4\pi} \left( \frac{1}{\nu} - \frac{1}{\nu_{m}} \right) \right]^{2} + \frac{Q}{16\pi^{2} p \nu_{m}}}.$$
(6).

The following special cases are discussed: (1) Stationary vortex sources Card 4/6